

Safety Data Sheet

Product Identifier: Myrinol AP

SDS ID: MDC-0314-16033

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name

Proprietary-unsaturated polyol

Chemical Family

Polyols

Product Use

Component of other chemical products such as polyurethanes; For Industrial Use Only.

Synonyms

Unsaturated Polyol

Molecular Formula

Proprietary

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Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

Specific Target Organ Toxicity – Single Exposure Hazard Category 3

Skin Corrosion/Irritation Hazard Category 2

Serious Eye Damage/Eye Irritation Hazard Category 2A

Skin Sensitizer Hazard Category 1B

Aquatic Environment Acute Hazard Category 1

Aquatic Environment Chronic Hazard Category 1

GHS Label Elements

Symbol(s)



Signal Word

Warning

Hazard Statement(s)

H315

Causes skin irritation

H317

May cause an allergic skin reaction

H319

Causes serious eye irritation

H335

May cause respiratory irritation

H411

Very toxic to aquatic life with long lasting effects

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Precautionary Statement(s)

P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P264	Wash skin thoroughly after handling
P271	Use only outdoors or in a well ventilated area
P272	Contaminated work clothing should not be allowed out of the workplace
P273	Avoid release to the environment.
P280	Wear eye protection/ face protection.
P280	Wear protective gloves

Response

P302 + P352	IF ON SKIN: Wash with plenty of soap and water
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage

Storage

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up

Disposal

P501	Dispose of contents/ container to an approved waste plant
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Other Hazards

None

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component	Classification	Percent
Proprietary	Proprietary	None	55%
5888-33-5	Isobornyl Acrylate	Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; Aquatic Acute 2; Aquatic Chronic 2; H315, H319, H335, H411	45%

For the full text of the H-Statements mentioned in this section, see section 16

Section 4 - FIRST-AID MEASURES

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Description of Necessary Measures

Get medical advice/attention if you feel unwell.

Inhalation

If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.

Skin

Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get immediate medical attention. Thoroughly clean and dry contaminated clothing before reuse.

Eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Ingestion

Get medical attention, if needed.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

Most Important Symptoms/Effects

Acute

No information on significant adverse effects.

Delayed

No information on significant adverse effects.

Section 5 - FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Use carbon dioxide, regular dry chemical, regular foam or water.

Unsuitable Extinguishing Media

None known.

Special Hazards Arising from the Chemical

Negligible fire and explosion hazard in bulk form.

Hazardous Combustion Products

Oxides of carbon, low molecular weight hydrocarbons

Advice for firefighters

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure

Fire Fighting Measures

Move container from fire area if it can be done without risk. Keep unnecessary people away, isolate hazard area and deny entry. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

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Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Keep unnecessary people away, isolate hazard area and deny entry. Collect spillage. Avoid release to the environment. Only personnel trained for the hazards of this material should perform clean up and disposal.

Methods and Materials for Containment and Cleaning Up

Keep unnecessary people away, isolate hazard area and deny entry. Avoid contact with eyes, skin and clothing. Only personnel trained for the hazards of this material should perform clean up and disposal. Collect spilled material using mechanical equipment.

Environmental Precautions

Collect spillage. Avoid release to the environment. In case of spillage, stop the flow of material and block any potential routes to water systems. Keep out of water supplies and sewers.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

Do not handle until all safety precautions have been read and understood. Keep away from all ignition sources. Avoid contact with skin and eyes. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Always wear recommended personal protective equipment. Wear personal protective clothing and equipment, see Section 8.

Conditions for Safe Storage, Including any Incompatibilities

None needed according to classification criteria

Store in a cool, dry place. Store in a well-ventilated area. Keep separated from incompatible substances. Keep container tightly closed. Empty containers may contain product residue. Store and handle in accordance with all current regulations and standards.

Incompatible Materials

oxidizing materials

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

ACGIH, NIOSH, EU, OSHA (US) and Mexico have not developed exposure limits for any of this product's components

Biological limit value

There are no biological limit values for any of this product's components.

Engineering Controls

Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection

Wear splash resistant safety goggles.

Skin Protection

Wear appropriate work clothing. Avoid skin contact with this product

Respiratory Protection

A NIOSH approved air-purifying respirator with an appropriate cartridge or canister may be appropriate under certain circumstances where airborne concentrations are expected to exceed exposure limits.

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Glove Recommendations

Wear appropriate chemical resistant gloves.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Color:	Light Amber
Physical State:	Highly viscous liquid
Odor:	Alcohol-like
pH:	Estimated 6.5 – 7.5
Density:	Not determined
Specific Gravity (Relative Density):	Estimated 1.10
Vapor Pressure:	Not Determined
Vapor Density:	No data available
Melting point:	Not Determined
Freezing point:	Not Determined
Solubility in Water :	Practically insoluble
Viscosity:	~ 10,750 cps at 25 °C

Section 10 - STABILITY AND REACTIVITY

Reactivity

No reactivity hazard is expected.

Chemical Stability

Stable at normal temperatures and pressure.

Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

Incompatible Materials

oxidizing materials

Hazardous decomposition products

Oxides of carbon, low molecular weight hydrocarbons

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation

No information on significant adverse effects.

Skin Contact

Moderate skin irritation

Eye Contact

Moderate eye irritation

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Ingestion

No information on significant adverse effects.

Acute and Chronic Toxicity

Component Analysis - LD50/LC50

Oral LD50 4350 mg/kg rat

Dermal LD50 > 3000 mg/kg rat

Immediate Effects

No information on significant adverse effects.

Delayed Effects

No information on significant adverse effects.

Irritation/Corrosivity Data

Moderate skin/eye irritation

Respiratory Sensitization

No data available.

Dermal Sensitization

Sensitising

Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA

Not classified.

Germ Cell Mutagenicity

Not classified.

Tumorigenic Data

No data available

Reproductive Toxicity

Not classified.

Specific Target Organ Toxicity - Single Exposure

Respiratory track irritant

Specific Target Organ Toxicity - Repeated Exposure

No target organs identified.

Aspiration hazard

No data available.

Medical Conditions Aggravated by Exposure

No data available.

Additional Data

No additional information available.

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity

Avoid release to the environment. Toxicity to daphnia and other aquatic invertebrates: EC50 – Daphnia magna (water flea) – 1.1 mg/l – 48h

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Component Analysis - Aquatic Toxicity (Estimated based on similar molecules)

Not available. Not expected to be toxic.

Persistence and Degradability

The product is not readily biodegradable

Bioaccumulative Potential

low potential to bioaccumulate

Mobility

No information available for the product.

Other Toxicity

No additional information available.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose in accordance with all applicable regulations. Regulations vary. Consult local authorities before disposal.

Disposal of Contaminated Packaging

No information available for the product.

Component Waste Numbers

The U.S. EPA has not published waste numbers for this product's components.

Section 14 - TRANSPORT INFORMATION

US DOT Information:

UN/NA #: Not dangerous goods

IATA Information:

UN#: 3082 Class: 9 P.G.: III

Proper shipping name: environemntally hazardous substance, liquid, n.o.s

IMDG Information:

UN#: 3082 Class: 9 P.G.: III EMS-No: F-A, S-F

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Marine polutant: yes

Further information

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids

Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations

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None of this products components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

SARA Section 311/312 (40 CFR 370 Subparts B and C)

Acute Health: yes **Chronic Health:** No **Fire:** No **Pressure:** No **Reactivity:** No

U.S. State Regulations

None of this product's components are listed on the state lists from CA, MA, MN

Pennsylvania Right to Know Components

Isobornyl acrylate

CAS No.

5888-33-5

New Jersey Right to Know Components

Isobornyl acrylate

CAS No.

5888-33-5

Not listed under California Proposition 65

Canadian WHMIS Ingredient Disclosure List (IDL)

The components of this product are either not listed on the IDL or are present below the threshold limit listed on the IDL.

Component Analysis - Inventory

Trade Secret (Trade Secret)

Proprietary

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX	TW
No	No	No	No	No	No	No	No	No	No	No	No	

Isobornyl Acrylate

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX	TW
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

Section 16 - OTHER INFORMATION

HMIS Rating

Health: 2 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

NFPA Ratings

Health: 2 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Summary of Changes

Supersedes SDS written on March 14, 2017

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT -

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Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

Other Information

Disclaimer:

Reasonable care has been taken in the preparation of this information; however, the manufacturer makes no warranty whatsoever including the warranty of merchantability, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental, consequential, or other such damages resulting from its use or misuse.